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Nagel et al.

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(54) **METHOD FOR REFORMING ORGANICS  
INTO SHORTER-CHAIN UNSATURATED  
ORGANIC COMPOUNDS**

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**C07C 4/02**

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**585/912; 585/942; 585/943; 208/126; 208/404;**  
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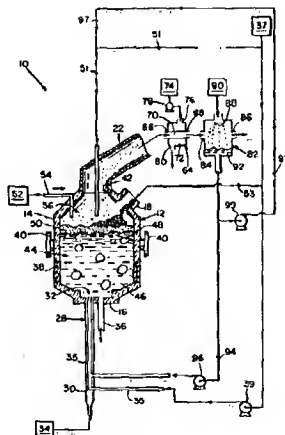
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(57) **ABSTRACT**

A method is disclosed for reforming organics into shorter-chain unsaturated organic compounds. A molten metal bath is provided which can cause homolytic cleavage of an organic component of an organic-containing feed. The feed is directed into the molten metal bath at a rate which causes partial homolytic cleavage of an organic component of the feed. Conditions are established and maintained in the reactor to cause partial homolytic cleavage of the organic component to produce unsaturated organic compounds, as products of the homolytic cleavage, which are discharged from the molten metal bath.

**17 Claims, 1 Drawing Sheet**



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